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SEQUENCE LISTING

<110> Pierre Fabre Médicament
 <120> USE OF ACTIVE P40 CONJUGATES FOR NASAL DELIVERY
 <130> D17064
 <140> PCT/FR99/00703
 <141> 1999-03-26
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 <151> 1998-03-27
 <160> 136

<170> PatentIn Vers. 2.0

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 <212> ADN
 <213> Klebsiella pneumoniae

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 <222> (1) .. (1032)
 <223> rP40

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tat gca ggt ggt aaa ctg ggt tgg tcc cag tat cac gac acc ggt ttc 96
 Tyr Ala Gly Gly Lys Leu Gly Trp Ser Gln Tyr His Asp Thr Gly Phe
 20 25 30

tac ggt aac ggt ttc cag aac aac aac ggt ccg acc cgt aac gat cag 144
 Tyr Gly Asn Gly Phe Gln Asn Asn Asn Gly Pro Thr Arg Asn Asp Gln
 35 40 45

ctt ggt gct ggt gcg ttc ggt ggt tac cag gtt aac ccg tac ctc ggt 192
 Leu Gly Ala Gly Ala Phe Gly Gly Tyr Gln Val Asn Pro Tyr Leu Gly
 50 55 60

ttc gaa atg ggt tat gac tgg ctg ggc cgt atg gca tat aaa ggc agc 240
 Phe Glu Met Gly Tyr Asp Trp Leu Gly Arg Met Ala Tyr Lys Gly Ser
 65 70 75 80

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 Val Asp Asn Gly Ala Phe Lys Ala Gln Gly Val Gln Leu Thr Ala Lys
 85 90 95

ctg ggt tac ccg atc act gac gat ctg gac atc tac acc cgt ctg ggc 336
 Leu Gly Tyr Pro Ile Thr Asp Asp Leu Asp Ile Tyr Thr Arg Leu Gly
 100 105 110

ggc atg gtt tgg cgc gct gac tcc aaa ggc aac tac gct tct acc ggc 384

Gly Met Val Trp Arg Ala Asp Ser Lys Gly Asn Tyr Ala Ser Thr Gly
115 120 125

gtt tcc cgt agc gaa cac gac act ggc gtt tcc cca gta ttt gct ggc 432
Val Ser Arg Ser Glu His Asp Thr Gly Val Ser Pro Val Phe Ala Gly
130 135 140

ggc gta gag tgg gct gtt act cgt gac atc gct acc cgt ctg gaa tac 480
Gly Val Glu Trp Ala Val Thr Arg Asp Ile Ala Thr Arg Leu Glu Tyr
145 150 155 160

cag tgg gtt aac aac atc ggc gac gcg ggc act gtg ggt acc cgt cct 528
Gln Trp Val Asn Asn Ile Gly Asp Ala Gly Thr Val Gly Thr Arg Pro
165 170 175

gat aac ggc atg ctg agc ctg ggc gtt tcc tac cgc ttc ggt cag gaa 576
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180 185 190

gat gct gca ccg gtt gtt gct ccg gct ccg gct ccg gct ccg gaa gtg 624
Asp Ala Ala Pro Val Val Ala Pro Ala Pro Ala Pro Ala Pro Glu Val
195 200 205

gct acc aag cac ttc acc ctg aag tct gac gtt ctg ttc aac ttc aac 672
Ala Thr Lys His Phe Thr Leu Lys Ser Asp Val Leu Phe Asn Phe Asn
210 215 220

aaa gct acc ctg aaa ccg gaa ggt cag cag gct ctg gat cag ctg tac 720
Lys Ala Thr Leu Lys Pro Glu Gly Gln Gln Ala Leu Asp Gln Leu Tyr
225 230 235 240

act cag ctg agc aac atg gat ccg aaa gac ggt tcc gct gtt gtt ctg 768
Thr Gln Leu Ser Asn Met Asp Pro Lys Asp Gly Ser Ala Val Val Leu
245 250 255

ggc tac acc gac cgc atc ggt tcc gaa gct tac aac cag cag ctg tct 816
Gly Tyr Thr Asp Arg Ile Gly Ser Glu Ala Tyr Asn Gln Gln Leu Ser
260 265 270

gag aaa cgt gct cag tcc gtc gtt gac tac ctg gtt gct aaa ggc atc 864
Glu Lys Arg Ala Gln Ser Val Val Asp Tyr Leu Val Ala Lys Gly Ile
275 280 285

ccg gct ggc aaa atc tcc gct cgc ggc atg ggt gaa tcc aac ccg gtt 912
Pro Ala Gly Lys Ile Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val
290 295 300

act ggc aac acc tgt gac aac gtg aaa gct cgc gct gcc ctg atc gat 960
Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp
305 310 315 320

tgc ctg gct ccg gat cgt cgt gta gag atc gaa gtt aaa ggc tac aaa 1008
Cys Leu Ala Pro Asp Arg Arg Val Glu Ile Glu Val Lys Gly Tyr Lys
325 330 335

gaa gtt gta act cag cct cag gct 1032
Glu Val Val Thr Gln Pro Gln Ala
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 35 40 45

Leu Gly Ala Gly Ala Phe Gly Gly Tyr Gln Val Asn Pro Tyr Leu Gly
 50 55 60

Phe Glu Met Gly Tyr Asp Trp Leu Gly Arg Met Ala Tyr Lys Gly Ser
 65 70 75 80

Val Asp Asn Gly Ala Phe Lys Ala Gln Gly Val Gln Leu Thr Ala Lys
 85 90 95

Leu Gly Tyr Pro Ile Thr Asp Asp Leu Asp Ile Tyr Thr Arg Leu Gly
 100 105 110

Gly Met Val Trp Arg Ala Asp Ser Lys Gly Asn Tyr Ala Ser Thr Gly
 115 120 125

Val Ser Arg Ser Glu His Asp Thr Gly Val Ser Pro Val Phe Ala Gly
 130 135 140

Gly Val Glu Trp Ala Val Thr Arg Asp Ile Ala Thr Arg Leu Glu Tyr
 145 150 155 160

Gln Trp Val Asn Asn Ile Gly Asp Ala Gly Thr Val Gly Thr Arg Pro
 165 170 175

Asp Asn Gly Met Leu Ser Leu Gly Val Ser Tyr Arg Phe Gly Gln Glu
 180 185 190

Asp Ala Ala Pro Val Val Ala Pro Ala Pro Ala Pro Ala Pro Glu Val
 195 200 205

Ala Thr Lys His Phe Thr Leu Lys Ser Asp Val Leu Phe Asn Phe Asn
 210 215 220

Lys Ala Thr Leu Lys Pro Glu Gly Gln Gln Ala Leu Asp Gln Leu Tyr
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Thr Gln Leu Ser Asn Met Asp Pro Lys Asp Gly Ser Ala Val Val Leu
 245 250 255

Gly Tyr Thr Asp Arg Ile Gly Ser Glu Ala Tyr Asn Gln Gln Leu Ser
 260 265 270

Glu Lys Arg Ala Gln Ser Val Val Asp Tyr Leu Val Ala Lys Gly Ile
275 280 285

Pro Ala Gly Lys Ile Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val
290 295 300

Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp
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Cys Leu Ala Pro Asp Arg Arg Val Glu Ile Glu Val Lys Gly Tyr Lys
325 330 335

Glu Val Val Thr Gln Pro Gln Ala
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<210> 3

<211> 303

<212> ADN

<213> Respiratory Syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(303)

<220>

<223> G2A

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Thr Val Lys Thr Lys Asn Thr Thr Thr Thr Gln Thr Gln Pro Ser Lys
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ccg acc acc aaa cag cgt cag aac aaa ccg ccg aac aaa ccg aac aac 96
Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn
20 25 30

gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg tgc agc atc tgc agc 144
Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser
35 40 45

aac aac ccg acc tgc tgg gcg atc tgc aaa cgt atc ccg aac aaa aaa 192
Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys
50 55 60

ccg ggc aaa aaa acc acg acc aaa ccg acc aaa aaa ccg acc ttc aaa 240
Pro Gly Lys Lys Thr Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65 70 75 80

acc acc aaa aaa gat cat aaa ccg cag acc acc aaa ccg aaa gaa gtg 288
Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val
85 90 95

ccg acc acc aaa ccg 303
Pro Thr Thr Lys Pro
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<210> 4
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 <212> PRT
 <213> Respiratory Syncytial Virus (RSV)

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 Thr Val Lys Thr Lys Asn Thr Thr Thr Thr Gln Thr Gln Pro Ser Lys
 1 5 10 15
 Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn
 20 25 30
 Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser
 35 40 45
 Asn Asn Pro Thr Cys Thr Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys
 50 55 60
 Pro Gly Lys Lys Thr Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
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 Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val
 85 90 95
 Pro Thr Thr Lys Pro
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<210> 5
 <211> 303
 <212> ADN
 <213> Respiratory Syncytial Virus (RSV)

<220>
 <221> CDS
 <222> (1)..(303)

<220>
 <223> G2B

<400> 5
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 Thr Ala Gln Thr Lys Gly Arg Ile Thr Thr Ser Thr Gln Thr Asn Lys
 1 5 10 15
 ccg agc acc aaa agc cgt agc aaa aac ccg ccg aaa aaa ccg aaa gat 96
 Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp
 20 25 30
 gat tac cac ttc gaa gtg ttc aac ttc gtg ccc tgc agc atc tgc ggc 144
 Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Gly
 35 40 45
 aac aac cag ctg tgc aaa agc atc tgc aaa acc atc ccg agc aac aaa 192
 Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys Thr Ile Pro Ser Asn Lys
 50 55 60

ccg aaa aag aaa ccg acc atc aaa ccg acc aac aaa ccg acc acc aaa 240
Pro Lys Lys Lys Pro Thr Ile Lys Pro Thr Asn Lys Pro Thr Thr Lys
65 70 75 80

acc acc aac aaa cgt gat ccg aaa acc ccg gcg aaa atg ccg aag aag 288
Thr Thr Asn Lys Arg Asp Pro Lys Thr Pro Ala Lys Met Pro Lys Lys
85 90 95

gaa atc atc acc aac 303
Glu Ile Ile Thr Asn
100

<210> 6
<211> 101
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<213> Respiratory Syncytial Virus (RSV)

<400> 6
Thr Ala Gln Thr Lys Gly Arg Ile Thr Thr Ser Thr Gln Thr Asn Lys
1 5 10 15

Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp
20 25 30

Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Gly
35 40 45

Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys Thr Ile Pro Ser Asn Lys
50 55 60

Pro Lys Lys Lys Pro Thr Ile Lys Pro Thr Asn Lys Pro Thr Thr Lys
65 70 75 80

Thr Thr Asn Lys Arg Asp Pro Lys Thr Pro Ala Lys Met Pro Lys Lys
85 90 95

Glu Ile Ile Thr Asn
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<210> 7
<211> 303
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<213> Respiratory Syncytial Virus (RSV)

<220>
<221> CDS
<222> (1) .. (303)

<220>
<223> G2AδCys

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Thr Val Lys Thr Lys Asn Thr Thr Thr Thr Gln Thr Gln Pro Ser Lys
1 5 10 15

ccg acc acc aaa cag cgt cag aac aaa ccg ccg aac aaa ccg aac aac 96
Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn
20 25 30

gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg agc agc atc tgc agc 144
Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser Ser Ile Cys Ser
35 40 45

aac aac ccg acc tgc tgg gcg atc agc aaa cgt atc ccg aac aaa aaa 192
Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile Pro Asn Lys Lys
50 55 60

ccg ggc aaa aaa acc acg acc aaa ccg acc aaa aaa ccg acc ttc aaa 240
Pro Gly Lys Lys Thr Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65 70 75 80

acc acc aaa aaa gat cat aaa ccg cag acc acc aaa ccg aaa gaa gtg 288
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85 90 95

ccg acc acc aaa ccg
Pro Thr Thr Lys Pro 303
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<210> 8

<211> 101

<212> PRT

<213> Respiratory Syncytial Virus (RSV)

<400> 8

Thr Val Lys Thr Lys Asn Thr Thr Thr Thr Gln Thr Gln Pro Ser Lys
1 5 10 15

Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn
20 25 30

Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser Ser Ile Cys Ser
35 40 45

Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile Pro Asn Lys Lys
50 55 60

Pro Gly Lys Lys Thr Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65 70 75 80

Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val
85 90 95

Pro Thr Thr Lys Pro
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<210> 9

<211> 303

<212> ADN

<213> Respiratory Syncytial Virus (RSV)

<220>
<221> CDS
<222> (1) .. (303)

<220>
<223> G2BδCys

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Thr Ala Gln Thr Lys Gly Arg Ile Thr Thr Ser Thr Gln Thr Asn Lys
1 5 10 15

ccg agc acc aaa agc cgt agc aaa aac ccg ccg aaa aaa ccg aaa gat 96
Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp
20 25 30

gat tac cac ttc gaa gtg ttc aac ttc gtg ccc agc agc atc tgc ggc 144
Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Ser Ser Ile Cys Gly
35 40 45

aac aac cag ctg tgc aaa agc atc agc aaa acc atc ccg agc aac aaa 192
Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys Thr Ile Pro Ser Asn Lys
50 55 60

ccg aaa aag aaa ccg acc atc aaa ccg acc aac aaa ccg acc acc aaa 240
Pro Lys Lys Lys Pro Thr Ile Lys Pro Thr Asn Lys Pro Thr Thr Lys
65 70 75 80

acc acc aac aaa cgt gat ccg aaa acc ccg gcg aaa atg ccg aag aag 288
Thr Thr Asn Lys Arg Asp Pro Lys Thr Pro Ala Lys Met Pro Lys Lys
85 90 95

gaa atc atc acc aac 303
Glu Ile Ile Thr Asn
100

<210> 10

<211> 101

<212> PRT

<213> Respiratory Syncytial Virus (RSV)

<400> 10

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1 5 10 15

Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp
20 25 30

Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Ser Ser Ile Cys Gly
35 40 45

Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys Thr Ile Pro Ser Asn Lys
50 55 60

Pro Lys Lys Lys Pro Thr Ile Lys Pro Thr Asn Lys Pro Thr Thr Lys

65 70 75 80
Thr Thr Asn Lys Arg Asp Pro Lys Thr Pro Ala Lys Met Pro Lys Lys
85 90 95
Glu Ile Ile Thr Asn
100

Sub B3
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<213> Respiratory Syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(42)

<220>
<223> G1ACys

<400> 11
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42

<210> 12
<211> 14
<212> PRT
<213> Respiratory Syncytial Virus (RSV)

<400> 12
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1 5 10

<210> 13
<211> 42
<212> ADN
<213> Respiratory Syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(42)

<220>
<223> G1BCys

<400> 13
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42

<210> 14
<211> 14
<212> PRT
<213> Respiratory Syncytial Virus (RSV)

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1 5 10

<210> 15
<211> 42
<212> ADN
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<220>
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42

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<211> 14
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<400> 16
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<210> 17
<211> 42
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<220>
<221> CDS
<222> (1)..(42)

<220>
<223>G1B

<400> 17
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1 5 10

42

<210> 18
<211> 14
<212> PRT
<213> Respiratory Syncytial Virus (RSV)

Sub B3
<400> 18
Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
1 5 10

<210> 19
<211> 14
<212> PRT
<213> Respiratory Syncytial Virus (RSV)

<220>
<223> Xaa means Orn.

<220>
<223> G1'A

<400> 19
Ser Ile Asp Ser Asn Asn Pro Thr Xaa Trp Ala Ile Cys Lys
1 5 10

<210> 20
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<212> PRT
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<220>
<223> Xaa means Orn.

<220>
<223> G1'B

<400> 20
Ser Ile Asp Gly Asn Asn Gln Leu Xaa Lys Ser Ile Cys Lys
1 5 10

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<211> 14
<212> PRT
<213> Respiratory Syncytial Virus (RSV)

<220>
<223> Xaa means Orn.

<220>
<223> G1'AδC

<400> 21
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1 5 10
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<211> 14
<212> PRT
<213> Respiratory Syncytial Virus (RSV)

<220>
<223> Xaa means Orn.

<220>
<223> G1'BδC

<400> 22
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<210> 23
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<212> ADN
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<223> G2AδCF

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Thr Val Lys Thr Lys Asn Thr Thr Thr Thr Gln Thr Gln Pro Ser Lys
1 5 10 15

ccg acc acc aaa cag cgt cag aac aaa ccg ccg aac aaa ccg aac aac 96
Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn
20 25 30

gat tcc cat tcc gaa gtg tcc aac tcc gtg ccg agc agc atc tgc agc 144
Asp Ser His Ser Glu Val Ser Asn Ser Val Pro Ser Ser Ile Cys Ser
35 40 45

aac aac ccg acc tgc tgg gcg atc agc aaa cgt atc ccg aac aaa aaa 192
Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile Pro Asn Lys Lys
50 55 60

ccg ggc aaa aaa acc acg acc aaa ccg acc aaa aaa ccg acc ttc aaa 240
Pro Gly Lys Lys Thr Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65 70 75 80

acc acc aaa aaa gat cat aaa ccg cag acc acc aaa ccg aaa gaa gtg 288
Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val
85 90 95

303

ccg acc acc aaa ccg
Pro Thr Thr Lys Pro
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<210> 24
<211> 101
<212> PRT
<213> Respiratory Syncytial Virus (RSV)

<400> 24
Thr Val Lys Thr Lys Asn Thr Thr Thr Thr Gln Thr Gln Pro Ser Lys
1 5 10 15

Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn
20 25 30

Asp Ser His Ser Glu Val Ser Asn Ser Val Pro Ser Ser Ile Cys Ser
35 40 45

Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile Pro Asn Lys Lys
50 55 60

Pro Gly Lys Lys Thr Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65 70 75 80

Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val
85 90 95

Pro Thr Thr Lys Pro
100

<210> 25
<211> 51
<212> ADN
<213> Respiratory Syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(51)

<220>
<223> G4A

<400> 25
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1 5 10 15

aaa 51
Lys

<210> 26
<211> 17
<212> PRT
<213> Respiratory Syncytial Virus (RSV)

<400> 26
Val Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys
1 5 10 15

Lys

<210> 27
<211> 51
<212> ADN
<213> Respiratory Syncytial Virus (RSV)

<220>
<221> CDS
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<223> G4AδC

<400> 27
gtg ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc 48
Val Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser
1 5 10 15

aaa 51
Lys

<210> 28
<211> 17
<212> PRT
<213> Respiratory Syncytial Virus (RSV)

<400> 28
Val Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser
1 5 10 15

Lys

<210> 29
<211> 51
<212> ADN
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gtg ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc 48
Val Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys
1 5 10 15

aaa 51
Lys

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<400> 30
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1 5 10 15

Lys

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gtg ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc 48
Val Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser
1 5 10 15

aaa 51
Lys

<210> 32
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<400> 32
Val Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser
1 5 10 15

Lys

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<220>
<223> Xaa means Orn.

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Val Pro Asp Ser Ile Asp Ser Asn Asn Pro Thr Xaa Trp Ala Ile Xaa
1 5 10 15

Lys

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<220>
<223> Xaa means Orn.

<220>
<223> G4'AδC

<400> 34
Val Pro Ser Ser Ile Asp Ser Asn Asn Pro Thr Xaa Trp Ala Ile Ser
1 5 10 15

Lys

<210> 35
<211> 17
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<220>
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<400> 35
Val Pro Asp Ser Ile Asp Gly Asn Asn Gln Leu Xaa Lys Ser Ile Xaa
1 5 10 15

Lys

<210> 36
<211> 17
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<220>
<223> Xaa means Orn.
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<400> 36
Val Pro Ser Ser Ile Asp Gly Asn Asn Gln Leu Xaa Lys Ser Ile Ser
1 5 10 15

Lys

<210> 37
<211> 183
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(183)
<220>
<223> G200A

<400> 37
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30
ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45
cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc acg acc 183
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr Thr Thr
50 55 60

<210> 38
<211> 61
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 38
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro

[illegible]

<220>
<223> G198A

~~<400> 40
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45~~

Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr
50 55

<210> 41
<211> 171
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(171)

<220>
<223> G196A

<400> 41
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30
ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45
cgt atc ccg aac aaa aaa ccg ggc aaa 171
Arg Ile Pro Asn Lys Lys Pro Gly Lys
50 55

<210> 42
<211> 57
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 42
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45
Arg Ile Pro Asn Lys Lys Pro Gly Lys
50 55

<210> 43
<211> 165
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(165)

<220>
<223> G194A

Sub B3
<400> 43
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30
ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45
cgt atc ccg aac aaa aaa ccg 165
Arg Ile Pro Asn Lys Lys Pro
50 55

<210> 44
<211> 55
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 44
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45
Arg Ile Pro Asn Lys Lys Pro
50 55

<210> 45
<211> 159
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(159)

<220>
<223> G192A

Sub B3

<400> 45
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30
ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45
cgt atc ccg aac aaa 159
Arg Ile Pro Asn Lys
50

<210> 46
<211> 53
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 46
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45
Arg Ile Pro Asn Lys
50

<210> 47
<211> 153
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(153)

<220>
<223> G6A

<400> 47
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val

20 25 30
 ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144
 Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
 35 40 45

cgt atc ccg 153
 Arg Ile Pro
 50

<210> 48
 <211> 51
 <212> PRT
 <213> Respiratory syncytial Virus (RSV)

<400> 48
 Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
 20 25 30

Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
 35 40 45

Arg Ile Pro
 50

<210> 49
 <211> 99
 <212> ADN
 <213> Respiratory syncytial Virus (RSV)

<220>
 <221> CDS
 <222> (1)..(99)

<220>
 <223> G7A

<400> 49
 aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg tgc 48
 Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Cys
 1 5 10 15

agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa cgt atc 96
 Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys Arg Ile
 20 25 30

ccg 99
 Pro

<210> 50
 <211> 33

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 50

Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Cys
1 5 10 15

Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys Arg Ile
20 25 30

Pro

<210> 51

<211> 183

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(183)

<220>

<223>G200A5C

<400> 51

cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc acg acc 183
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr Thr Thr
50 55 60

<210> 52

<211> 61

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 52

Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr Thr Thr
50 55 60

Sub B3
<210> 53
<211> 177
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(177)

<220>
<223> G198AδC

PF82PCTSEQ/dln
<400> 53
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30
ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45
cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc 177
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr
50 55

<210> 54
<211> 59
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 54
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr
50 55

<210> 55
<211> 171
<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(171)

<220>

<223> G196AδC

<400> 55

cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

cgt atc ccg aac aaa aaa ccg ggc aaa 171
Arg Ile Pro Asn Lys Lys Pro Gly Lys
50 55

<210> 56

<211> 57

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 56

Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

Arg Ile Pro Asn Lys Lys Pro Gly Lys
50 55

<210> 57

<211> 165

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(165)

<220>

<223> G194AδC

Sub B21

<400> 57
 cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
 Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
 Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
 20 25 30

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144
 Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
 35 40 45

cgt atc ccg aac aaa aaa ccg 165
 Arg Ile Pro Asn Lys Lys Pro
 50 55

<210> 58
 <211> 55
 <212> PRT
 <213> Respiratory syncytial Virus (RSV)

<400> 58
 Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
 20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
 35 40 45

Arg Ile Pro Asn Lys Lys Pro
 50 55

<210> 59
 <211> 159
 <212> ADN
 <213> Respiratory syncytial Virus (RSV)

<220>
 <221> CDS
 <222> (1)..(159)

<220>
 <223> G192A5C

<400> 59
 cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
 Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
 Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val

20 25 30

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144
 Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
 35 40 45

cggt atc ccg aac aaa 159
 Arg Ile Pro Asn Lys
 50

<210> 60
 <211> 53
 <212> PRT
 <213> Respiratory syncytial Virus (RSV)

<400> 60
 Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
 20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
 35 40 45

Arg Ile Pro Asn Lys
 50

<210> 61
 <211> 153
 <212> ADN
 <213> Respiratory syncytial Virus (RSV)

<220>
 <221> CDS
 <222> (1) ..(153)

<220>
 <223> G6A5C

<400> 61
 cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
 Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
 Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
 20 25 30

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144
 Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
 35 40 45

cggt atc ccg 153
 Arg Ile Pro

50

<210> 62
<211> 51
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 62
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

Arg Ile Pro
50

<210> 63
<211> 99
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(99)
<220>
<223> G7AδC

<400> 63
aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg agc 48
Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser
1 5 10 15

agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa cgt atc 96
Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile
20 25 30

ccg 99
Pro

<210> 64
<211> 33
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 64
Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser
1 5 10 15

Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile

20

25

30

Pro

<210> 65

<211> 183

<212> ADM

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(183)

<220>

<223> G200B

<400> 65

agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

acc atc ccg agc aac aaa ccg aaa aag aaa ccg acc atc 183
Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro Thr Ile
50 55 60

<210> 66

<211> 61

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 66

Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro Thr Ile
50 55 60

<210> 67

<211> 177

<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(177)

<220>
<223> G198E

<400> 67

agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

acc atc ccg agc aac aaa ccg aaa aag aaa ccg 177
Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro
50 55

<210> 68
<211> 59
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 68

Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro
50 55

<210> 69
<211> 171
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(171)

<220>

<223> G196B

<400> 69

agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

acc atc ccg agc aac aaa ccg aaa aag 171
Thr Ile Pro Ser Asn Lys Pro Lys Lys
50 55

<210> 70

<211> 57

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 70

Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys
50 55

<210> 71

<211> 165

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(165)

<220>

<223> G194B

<400> 71

agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

acc atc ccg agc aac aaa ccg 165
Thr Ile Pro Ser Asn Lys Pro
50 55

<210> 72

<211> 55

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 72

Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

Thr Ile Pro Ser Asn Lys Pro
50 55

<210> 73

<211> 159

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1) .. (159)

<220>

<223> G192B

<400> 73

agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

acc atc ccg agc aac
Thr Ile Pro Ser Asn
50

159

<210> 74
<211> 53
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 74
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

Thr Ile Pro Ser Asn
50

<210> 75
<211> 153
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(153)

<220>
<223> G6B

<400> 75
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

acc atc ccg 153
Thr Ile Pro
50

<210> 76
<211> 51
<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 76

Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

Thr Ile Pro
50

<210> 77

<211> 99

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(99)

<220>

<223> G7B

<400> 77

aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg ccc tgc 48
Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Cys
1 5 10 15

agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa acc atc 96
Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys Thr Ile
20 25 30

ccg 99
Pro

<210> 78

<211> 33

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 78

Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Cys
1 5 10 15

Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys Thr Ile
20 25 30

Pro

Sub B3

<210> 79
<211> 183
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(183)

<220> G200BdC
<223>

<400> 79
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30
ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45
acc atc ccg agc aac aaa ccg aaa aag aaa ccg acc atc 183
Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro Thr Ile
50 55 60

<210> 80
<211> 61
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 80
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45
Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro Thr Ile
50 55 60

<210> 81
<211> 177
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(177)

<220>
<223> G198BδC

<400> 81
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30
ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45
acc atc ccg agc aac aaa ccg aaa aag aaa ccg 177
Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro
50 55

<210> 82
<211> 59
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 82
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45
Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro
50 55

<210> 83
<211> 171
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(171)

<220>
<223> G196BδC

<400> 83
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro

1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
 Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
 20 25 30

ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144
 Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
 35 40 45

acc atc ccg agc aac aaa ccg aaa aag 171
 Thr Ile Pro Ser Asn Lys Pro Lys Lys
 50 55

<210> 84
 <211> 57
 <212> PRT
 <213> Respiratory syncytial Virus (RSV)

<400> 84
 Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
 1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
 20 25 30

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
 35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys
 50 55

<210> 85
 <211> 183
 <212> ADN
 <213> Respiratory syncytial Virus (RSV)

<220>
 <221> CDS
 <222> (1)..(183)

<220>
 <223> G200V

<400> 85
 cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
 Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
 Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
 20 25 30

ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
 Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His

35 40 45 183
att gag acg gaa aga gca cca agc aga gca cca aca atc
Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr Ile
50 55 60

<210> 86
<211> 61
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 86
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45

Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr Ile
50 55 60

<210> 87
<211> 165
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(165)

<220>
<223> G194B8C

<400> 87
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

acc atc ccg agc aac aaa ccg 165
Thr Ile Pro Ser Asn Lys Pro
50 55

<210> 88

<211> 55
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 88
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45
Thr Ile Pro Ser Asn Lys Pro
50 55

<210> 89
<211> 159
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(159)

<220>
<223> G192B5C

<400> 89
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30
ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45
acc atc ccg agc aac 159
Thr Ile Pro Ser Asn
50

<210> 90
<211> 53
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 90
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

Thr Ile Pro Ser Asn
50

<210> 91
<211> 153
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(153)

<220>
<223> G6B8C

<400> 91
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

acc atc ccg 153
Thr Ile Pro
50

<210> 92
<211> 51
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 92
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

Thr Ile Pro
50

<220>
<223> G7BδC

[illegible]

~~<400> 94~~
~~Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Ser~~
~~1 5 10 15~~
~~Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys Thr Ile~~
~~20 25 30~~

Pro

$$\begin{array}{l} \langle 220 \rangle \\ \langle 223 \rangle \end{array} \quad \text{G2V}$$

PF82PCTSEQ/dln

caa aac aga aaa atc aaa ggt caa tca aca cta cca gcc aca aga aaa 48
 Gln Asn Arg Lys Ile Lys Gly Gln Ser Thr Leu Pro Ala Thr Arg Lys
 1 5 10 15

cca cca att aat cca tca gga agc atc cca cca gaa aac cat caa gac 96
 Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp
 20 25 30

cac aac aac ttc caa aca ctc ccc tat gtt ccc tgc agt aca tgt gaa 144
 His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys Ser Thr Cys Glu
 35 40 45

ggt aat ctt gca tgc tta tca ctc tgc cat att gag acg gaa aga gca 192
 Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu Thr Glu Arg Ala
 50 55 60

cca agc aga gca cca aca atc acc ctc aaa aag aca cca aaa cca aaa 240
 Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys
 65 70 75 80

acc aca aaa aag cca acc aag aca aca atc cat cac aga acc agc cca 288
 Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro
 85 90 95

gaa acc aaa ctg caa 303
 Glu Thr Lys Leu Gln
 100

<210> 96
 <211> 101
 <212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 96

Gln Asn Arg Lys Ile Lys Gly Gln Ser Thr Leu Pro Ala Thr Arg Lys
 1 5 10 15

Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp
 20 25 30

His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys Ser Thr Cys Glu
 35 40 45

Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu Thr Glu Arg Ala
 50 55 60

Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys
 65 70 75 80

Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro
 85 90 95

Glu Thr Lys Leu Gln
 100

<210> 97

<211> 303
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1) .. (303)

<220>
<223> G2V8C

<400> 97

caa aac aga aaa atc aaa ggt caa tca aca cta cca gcc aca aga aaa 48
Gln Asn Arg Lys Ile Lys Gly Gln Ser Thr Leu Pro Ala Thr Arg Lys
1 5 10 15

cca cca att aat cca tca gga agc atc cca cca gaa aac cat caa gac 96
Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp
20 25 30

cac aac aac ttc caa aca ctc ccc tat gtt ccc agc agt aca tgt gaa 144
His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser Ser Thr Cys Glu
35 40 45

ggt aat ctt gca tgc tta tca ctc agc cat att gag acg gaa aga gca 192
Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu Thr Glu Arg Ala
50 55 60

cca agc aga gca cca aca atc acc ctc aaa aag aca cca aaa cca aaa 240
Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys
65 70 75 80

acc aca aaa aag cca acc aag aca aca atc cat cac aga acc agc cca 288
Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro
85 90 95

gaa acc aaa ctg caa 303
Glu Thr Lys Leu Gln
100

<210> 98
<211> 101
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 98

Gln Asn Arg Lys Ile Lys Gly Gln Ser Thr Leu Pro Ala Thr Arg Lys
1 5 10 15

Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp
20 25 30

His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser Ser Thr Cys Glu
35 40 45

Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu Thr Glu Arg Ala

Sub

50 55 60
 Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys
 65 70 75 80
 Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro
 85 90 95
 Glu Thr Lys Leu Gln
 100

<210> 99
 <211> 177
 <212> ADN
 <213> Respiratory syncytial Virus (RSV)

<220>
 <221> CDS
 <222> (1)..(177)
 <220>
 <223> G198V

<400> 99
 cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
 Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1 5 10 15
 cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
 Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
 20 25 30
 ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
 Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
 35 40 45
 att gag acg gaa aga gca cca agc aga gca cca 177
 Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro
 50 55

<210> 100
 <211> 59
 <212> PRT
 <213> Respiratory syncytial Virus (RSV)

<400> 100
 Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1 5 10 15
 Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
 20 25 30

Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
 35 40 45

Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro
50 55

<210> 101
<211> 171
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(171)

<220>
<223> G196V

<400> 101
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30
ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45
att gag acg gaa aga gca cca agc aga 171
Ile Glu Thr Glu Arg Ala Pro Ser Arg
50 55

<210> 102
<211> 57
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 102
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45
Ile Glu Thr Glu Arg Ala Pro Ser Arg
50 55

<210> 103
<211> 165
<212> ADN
<213> Respiratory syncytial Virus (RSV)

Sub B3
<220>
<221> CDS
<222> (1)..(165)

<220>
<223> G194V

<400> 103
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30
ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45
att gag acg gaa aga gca cca 165
Ile Glu Thr Glu Arg Ala Pro
50 55

<210> 104
<211> 55
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 104
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45
Ile Glu Thr Glu Arg Ala Pro
50 55

<210> 105
<211> 159
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(159)

<220>
<223> G192V

Sub B3

<400> 105
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30
ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45
att gag acg gaa aga 159
Ile Glu Thr Glu Arg
50

<210> 106
<211> 53
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 106
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45
Ile Glu Thr Glu Arg
50

<210> 107
<211> 153
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(153)

<220>
<223> G6V

<400> 107
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val

20 25 30
ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45

att gag acg 153
Ile Glu Thr
50

<210> 108
<211> 51
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 108
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45

Ile Glu Thr
50

<210> 109
<211> 99
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(99)

<220>
<223> G7V

<400> 109
aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt ccc tgc 48
Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys
1 5 10 15

agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat att gag 96
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu
20 25 30

acg 99
Thr

<210> 110
<211> 33

<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 110
Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys
1 5 10 15
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu
20 25 30

Thr

<210> 111
<211> 183
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(183)

<220>
<223> G200V8C

<400> 111
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30
ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45
att gag acg gaa aga gca cca agc aga gca cca aca atc 183
Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr Ile
50 55 60

<210> 112
<211> 61
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 112
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His

35 40 45
Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr Ile
50 55 60

Sub B3
<210> 113
<211> 177
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(177)

<220>
<223> G198V8C

PF82PCTSEQ/dln
<400> 113
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

att gag acg gaa aga gca cca agc aga gca cca 177
Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro
50 55

<210> 114
<211> 59
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 114
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro
50 55

<210> 115
<211> 171

<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1) .. (171)

<220>
<223> G196V8C

<400> 115
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30
ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45
att gag acg gaa aga gca cca agc aga 171
Ile Glu Thr Glu Arg Ala Pro Ser Arg
50 55

<210> 116
<211> 57
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 116
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45
Ile Glu Thr Glu Arg Ala Pro Ser Arg
50 55

<210> 117
<211> 165
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1) .. (165)

<220>

<223> G194V8C

<400> 117

cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

att gag acg gaa aga gca cca 165
Ile Glu Thr Glu Arg Ala Pro
50 55

<210> 118

<211> 55

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 118

Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

Ile Glu Thr Glu Arg Ala Pro
50 55

<210> 119

<211> 159

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(159)

<220>

<223> G192V8C

<400> 119

cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

att gag acg gaa aga 159
Ile Glu Thr Glu Arg
50

<210> 120
<211> 53
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 120
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

Ile Glu Thr Glu Arg
50

<210> 121
<211> 153
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(153)

<220>
<223> G6V8C

<400> 121
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

att gag acg
Ile Glu Thr
50

153

<210> 122
<211> 51
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 122
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

Ile Glu Thr
50

<210> 123
<211> 99
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1) .. (99)

<220>
<223> G7VδC

<400> 123
aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt ccc agc 48
Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser
1 5 10 15

agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat att gag 96
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu
20 25 30

acg 99
Thr

<210> 124
<211> 33
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 124
Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser
1 5 10 15

Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu
20 25 30

Thr

<210> 125
<211> 51
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1) .. (51)

<220>
<223> G4V

<400> 125
gtt ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc 48
Val Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys
1 5 10 15

cat 51
His

<210> 126
<211> 17
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 126
Val Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys
1 5 10 15

His

<210> 127
<211> 51
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1) .. (51)

<220>
<223> G4VδC

<400> 127
gtt ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc 48

Val Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser
1 5 10 15

cat
His

51

<210> 128
<211> 17
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 128
Val Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser
1 5 10 15

His

<210> 129
<211> 17
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<220>
<223> Xaa means orn.

<220>
<223> G4'V

<400> 129
Val Pro Asp Ser Thr Asp Glu Gly Asn Leu Ala Xaa Leu Ser Leu Xaa
1 5 10 15

His

<210> 130
<211> 17
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<220>
<223> Xaa means orn.

<220>
<223> G4'vδC

<400> 130
Val Pro Ser Ser Thr Asp Glu Gly Asn Leu Ala Xaa Leu Ser Leu Ser
1 5 10 15

His

Sub 3
<210> 131
<211> 42
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(42)

<220>
<223> G1V

<400> 131
agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
1 5 10

42

<210> 132
<211> 14
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 132
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
1 5 10

<210> 133
<211> 42
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(42)

<220>
<223> G1VδC

<400> 133
agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
1 5 10

42

<210> 134
<211> 14
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 134
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His

1

5

10

<210> 135

<211> 14

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<220>

<223> Xaa means orn.

<220>

<223> G1'V5C

<400> 135

Ser Thr Asp Glu Gly Asn Leu Ala Xaa Leu Ser Leu Ser His

1

5

10

<210> 136

<211> 15

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<220>

<223> Xaa means orn.

<220>

<223> G1'

<400> 136

Ser Ile Asp Ser Asn Asn Pro Thr Xaa Trp Ala Ile Ser Lys Cys

1

5

10

15